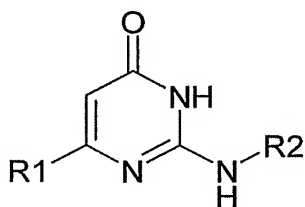


Amendments to the claims

This listing of the claims replaces all prior versions, or listings, of the claims.

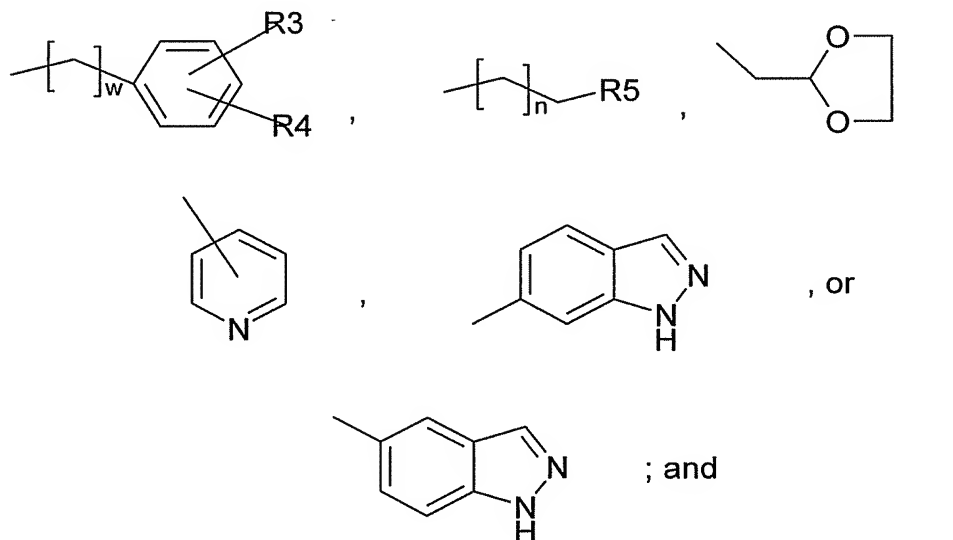
1. (CURRENTLY AMENDED) A compound of the formula I, or a salt[[,]] ~~solvate, or a~~
physiologically functional derivative thereof



(I)

in which

R2 is a radical of the formula

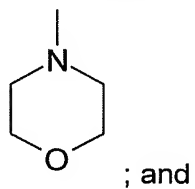


in which

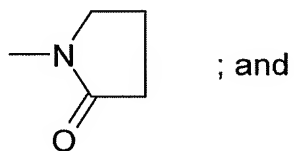
$n = 1 - 2$;

$w = 0 - 2$;

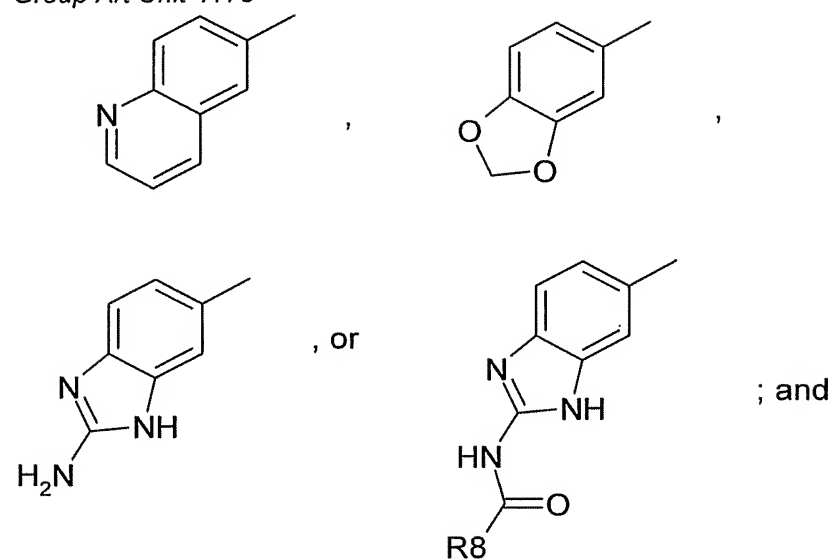
R3 and R4 are independently hydrogen, hydroxy, -OR6, halogen, -SO₂NH₂, -OH, -C₁₋₆alkyl, -(C=O)-OEt, -NH(C=O)-CH₃, or a radical of the formula



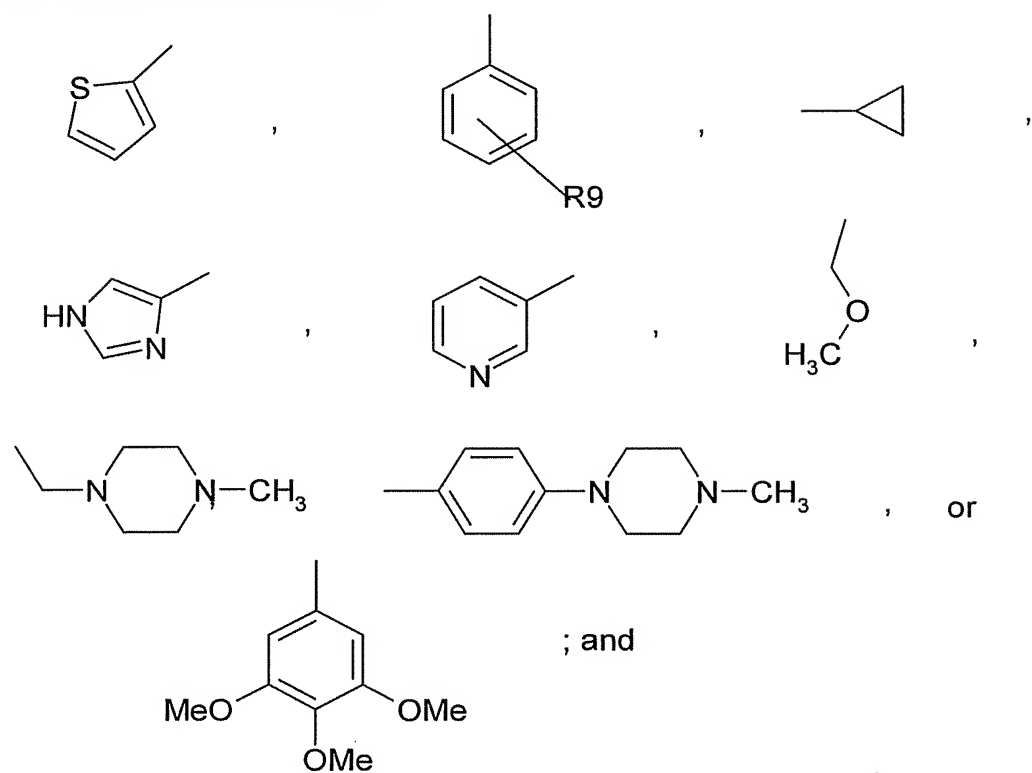
R5 is -NH₂, hydrogen, -OR6, -N(R6)(R7), or a radical of the formula



R1 is a radical of the formula



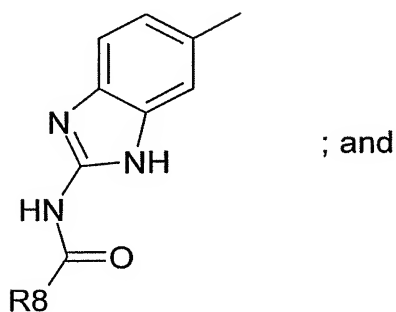
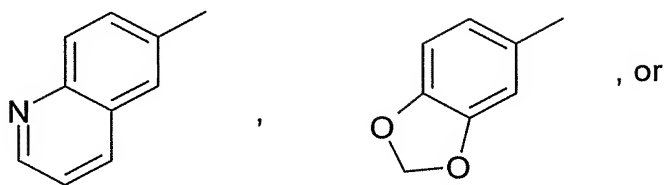
R8 is a radical of the formula



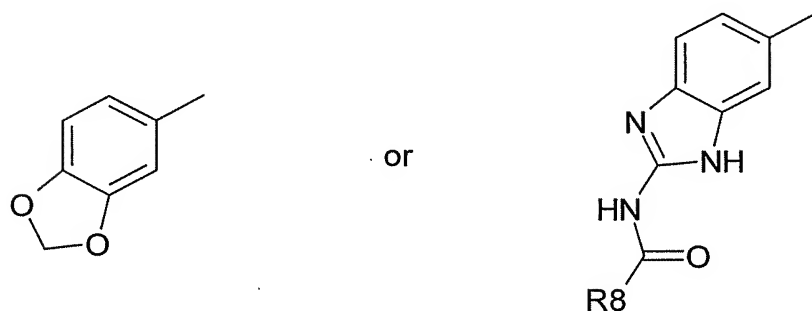
R9 is -NH(C=O)CH₃, -SO₂NH₂, -SO₂N(R6)(R7); and

R6 and R7 are independently C₁₋₆alkyl.

2. (ORIGINAL) A compound of claim 1 in which R1 is a radical of the formula



3. (WITHDRAWN) A compound of claim 2 in which R₁ is a radical of the formula



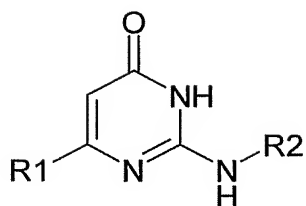
4. (WITHDRAWN) A compound of claim 3 in which R₈ is 2-thienyl.

5. (CANCELED)

6. (CANCELED)

7. (CANCELED)

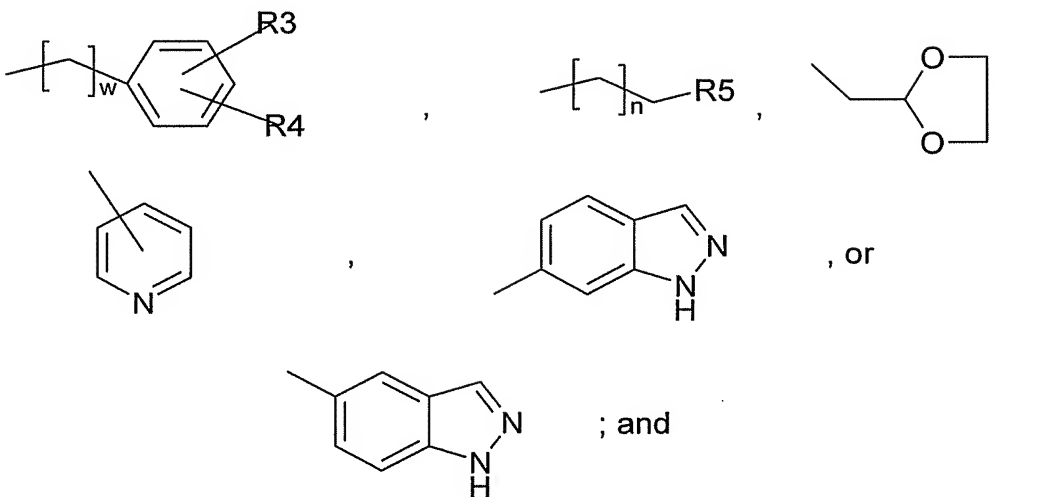
8. (CURRENTLY AMENDED) A method of treating ~~or preventing~~ diseases selected from the group consisting of: anemia, aplastic anemia, myelodysplastic syndrome, myelosuppression, and cytopenia; comprising, administering to a mammal a therapeutically effective amount of a compound formula I, or a salt[[,]] ~~solvate, or a physiologically functional derivative thereof~~



I

in which

R2 is a radical of the formula

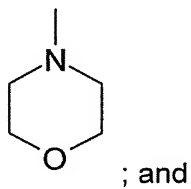


in which

$n = 1 - 2$;

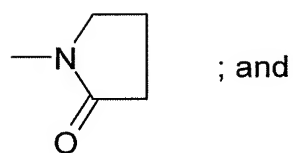
$w = 0 - 2$;

R3 and R4 are independently hydrogen, hydroxy, -OR6, halogen, -SO₂NH₂, -OH, -C₁₋₆alkyl, -(C=O)-OEt, -NH(C=O)-CH₃, or a radical of the formula

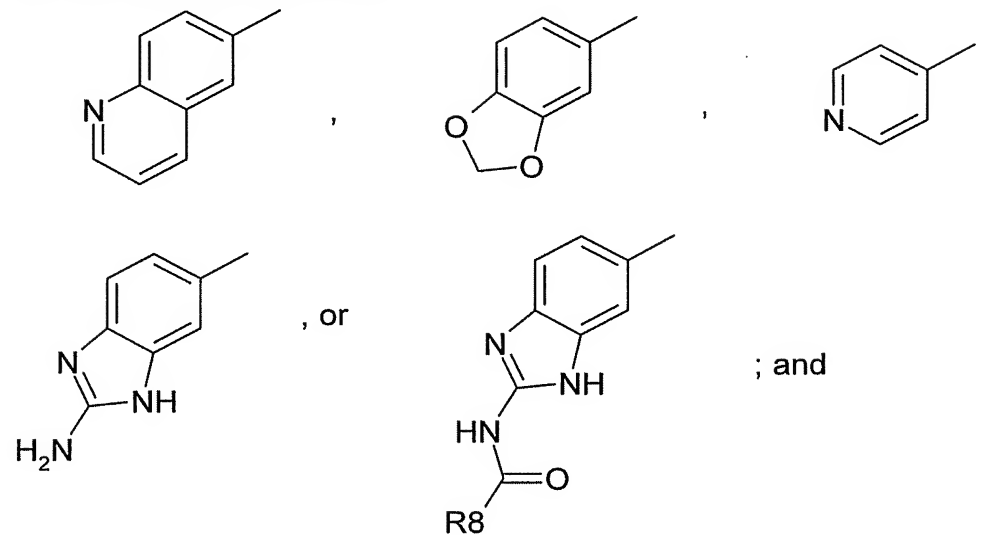


; and

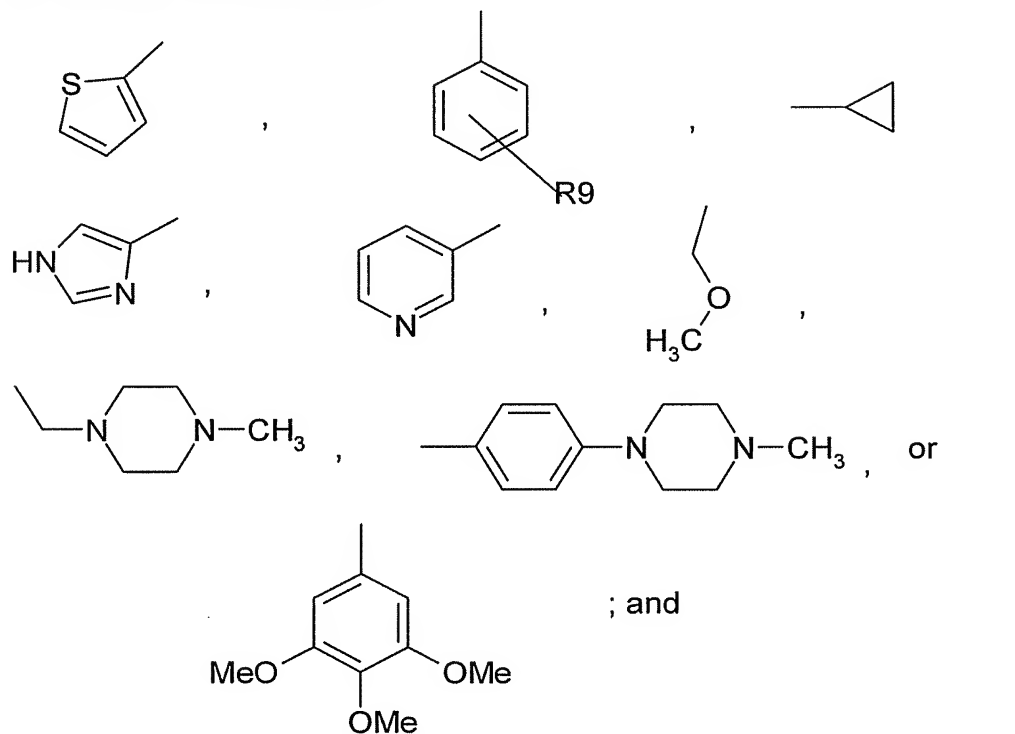
R5 is -NH₂, hydrogen, -OR6, -N(R6)(R7), or a radical of the formula



R1 is a radical of the formula



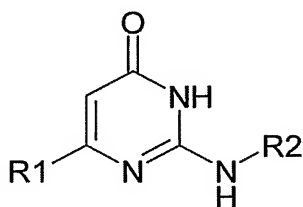
R8 is a radical of the formula



R9 is $-\text{NH}(\text{C}=\text{O})\text{CH}_3$, $-\text{SO}_2\text{NH}_2$, $-\text{SO}_2\text{N}(\text{R6})(\text{R7})$; and

R6 and R7 are independently C₁₋₆alkyl.

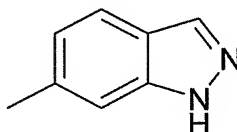
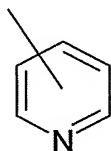
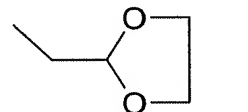
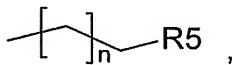
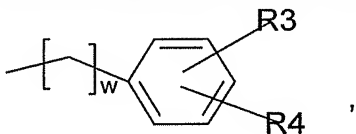
9. (CURRENTLY AMENDED) A pharmaceutical composition including a therapeutically effective amount of a compound formula I, or a salt~~[[,]] solvate, or a physiologically-functional derivative~~ thereof, and one or more pharmaceutically acceptable carriers, diluents and excipients



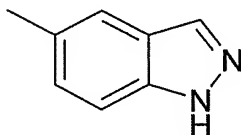
I

in which

R2 is a radical of the formula



, or



; and

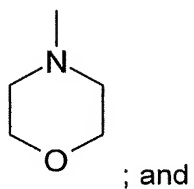
in which

n = 1 - 2;

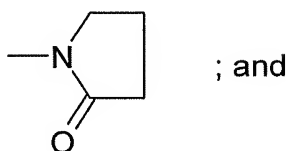
w = 0 - 2;

R3 and R4 are independently hydrogen, hydroxy, -OR6, halogen, -SO₂NH₂, -OH,

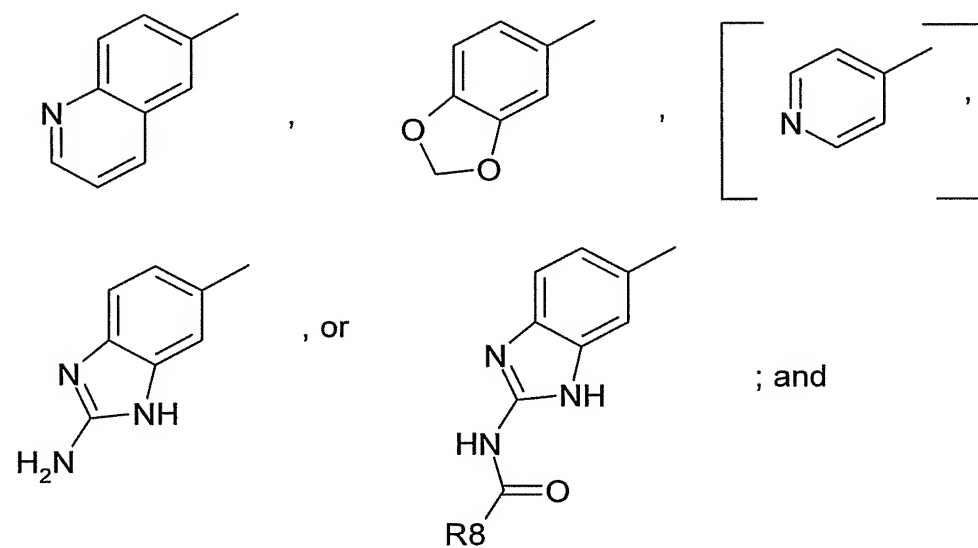
-C₁₋₆alkyl, -(C=O)-OEt, -NH(C=O)-CH₃, or a radical of the formula



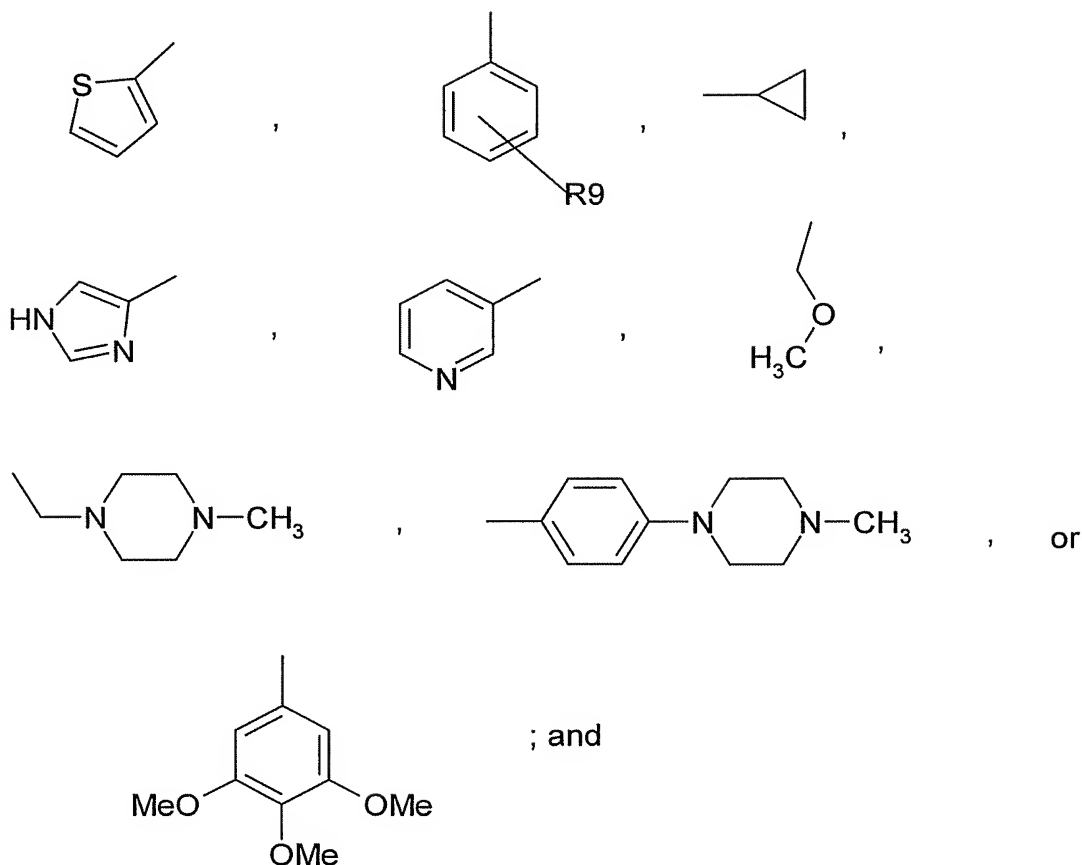
R₅ is -NH₂, hydrogen, -OR₆, -N(R₆)(R₇), or a radical of the formula



R₁ is a radical of the formula



R₈ is a radical of the formula



R9 is -NH(C=O)CH₃, -SO₂NH₂, -SO₂N(R6)(R7); and

R6 and R7 are independently C₁₋₆alkyl.

10. (CURRENTLY AMENDED) A compound selected from the group consisting of:

- 2-(2-Amino-ethylamino)-6-quinolin-6-yl-3H-pyrimidin-4-one;
- 2-(2-Dimethylamino-ethylamino)-6-quinolin-6-yl-1H-pyrimidin-4-one;
- 2-(3-Methoxy-benzylamino)-6-quinolin-6-yl-1H-pyrimidin-4-one;
- 2-[[2,6-Bis(methoxy)phenyl]amino]-6-(6-quinolinyl)-4(1H)-pyrimidinone;
- N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;
- N-{5-[6-Oxo-2-(4-pyridinylamino)-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-[5-(2-[[3-(Aminosulfonyl)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-{5-[6-Oxo-2-(phenylamino)-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-(5-{2-[(3-Hydroxyphenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-{5-[2-(1H-Indazol-6-ylamino)-6-oxo-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-[5-(2-[[4-(Methyloxy)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(Methyloxy)ethyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(Methyloxy)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[3-(Methyloxy)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[3-(Dimethylamino)propyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(2,4-Dichlorophenyl)ethyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-[5-(2-[[2-(4-Morpholinyl)phenyl]amino]-6-oxo-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-(5-{2-[(2-Fluorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-(5-{2-[(2,5-Dichlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-{5-[2-(Ethylamino)-6-oxo-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}-2-thiophenecarboxamide;

N-(5-{2-[(2-Methylphenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

N-[5-(6-Oxo-2-[[3-(2-oxo-1-pyrrolidinyl)propyl]amino]-1,6-dihydro-4-pyrimidinyl)-1H-benzimidazol-2-yl]-2-thiophenecarboxamide;

N-(5-{2-[(1,3-Dioxolan-2-ylmethyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;

3-(Acetylamino)-N-(5-{2-[(2-chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)benzamide;
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)cyclopropanecarboxamide;
4-(Aminosulfonyl)-N-(5-{2-[(2-chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)benzamide;
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-4-[(dipropylamino)sulfonyl]benzamide;
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-1H-imidazole-4-carboxamide;
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-3,4,5-tris(methyloxy)benzamide;
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-3-pyridinecarboxamide;
N-(5-{2-[(2-chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-(methyloxy)acetamide;
N-(5-{2-[(2-Chlorophenyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-(4-methyl-1-piperazinyl)acetamide;
4-(4-Methyl-1-piperazinyl)-N-{5-[6-oxo-2-(phenylamino)-1,6-dihydro-4-pyrimidinyl]-1H-benzimidazol-2-yl}benzamide;
6-(2-Amino-1H-benzimidazol-5-yl)-2-([3-(methyloxy)phenyl]methyl)amino)-4(1H)-pyrimidinone;
N-{5-[2-([3-(Methyloxy)phenyl]methyl)amino]-6-oxo-1,6-dihydro-4-pyrimidinyl}-1H-benzimidazol-2-yl)-2-thiophenecarboxamide;
6-Benzo[1,3]dioxol-5-yl-2-(3-methoxy-benzylamino)-1H-pyrimidin-4-one;
6-(1,3-Benzodioxol-5-yl)-2-(1H-indazol-5-ylamino)-4(1H)-pyrimidinone;
6-(1,3-Benzodioxol-5-yl)-2-[3-(methyloxy)phenyl]amino)-4(1H)-pyrimidinone;
3-{[4-(1,3-Benzodioxol-5-yl)-6-oxo-1,6-dihydro-2-pyrimidinyl]amino}benzenesulfonamide;
6-(1,3-Benzodioxol-5-yl)-2-[2-(methyloxy)phenyl]amino)-4(1H)-pyrimidinone;
2-[(2-Chlorophenyl)amino]-6-(4-pyridinyl)-4(1H)-pyrimidinone;
2-(1H-Indazol-6-ylamino)-6-(4-pyridinyl)-4(1H)-pyrimidinone;
3-{[4-Oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}benzenesulfonamide;

2-[3-(methyloxy)phenyl]amino)-6-(4-pyridinyl)-4(1H)-pyrimidinone;
2-(Phenylamino)-6-(4-pyridinyl)-4(1H)-pyrimidinone;
Ethyl 3-{[4-oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}benzoate;

Serial No.: 10/588,527
Group Art Unit 4173

4-[[4-Oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}benzenesulfonamide;
6-(4-Pyridinyl)-2-(4-pyridinylamino)-4(1H)-pyrimidinone; and
N-(3-[[4-Oxo-6-(4-pyridinyl)-1,4-dihydro-2-pyrimidinyl]amino}phenyl)acetamide.

11. (NEW) A method according to claim 8 wherein the mammal is a human.